MONTHLY PROJECT REPORT

ORIGINATOR(S)	BUDGET EST. FY. AMOUNT	REPORTING PERIOD
02-3		1 August - 30 August

☐ FUTURE ☒ ACTIVE ☐ COMPLETED ☐ CANCELLED ☐ SUSPENDED

PROJECT NUMBER	PRIORITY CLASS	PRIM. RSPN.	PROJECT ENGINEER
M-5020	I		25X1A9A

PROJECT TITLE

Modification Work Orders

PROJECT REQUIREMENT

To notify all field stations of standard modifications to equipment.

PROJECT DESCRIPTION

Reproduce necessary copies, assemble and prepare cover letters for all Modification Work Orders. Obtain approval and coordination. Determine category of distribution and forward to appropriate areas.

25X1A9A

APPROVAL DATE	APPROVED	STARTING DATE	COMPLETION DATE
		8 February 1955	

The following MWO's were issued during this reporting period:

MWO 21 - Addition of PMO-2 Oscillator to 2ST Mobile Radio Station. This modification permits greater frequency-changing flexibility than was possible using crystal control.

MWO 22 - Ventilation of DDR-2 Diversity Receiver Rack. This modification provides a fan which is mounted on top of the rack in a special rack top for exhausting hot air from the rack.

MWO 23 - Connector Modification of URR-10 Portable DF Set. This modification provides for replacement antenna cable connectors; the original connectors proved unreliable.

S E C R E T

MONTHLY PROJECT REPORT

ORIGINATOR(S)	BUDGET EST. FY. / AMOUNT	REPORTING PERIOD
OC-E/OC-O&T		1 August - 31 August 1957

☐ FUTURE ☒ ACTIVE ☐ COMPLETED ☐ CANCELLED ☐ SUSPENDED

PROJECT NUMBER	PRIORITY CLASS	PRIM. RSPN.	PROJECT ENGINEER
E-5021	II		25X1A9A

PROJECT TITLE

DF Development and Replacement Program

PROJECT REQUIREMENT

To provide standard DF equipments of the following types to meet Agency requirements: (a) Semi-fixed HF, DF. (b) Portable HF, DF. (c) Portable VHF, DF. (d) Close range, body type HF, DF.

PROJECT DESCRIPTION

Investigate military, FCC and commercial developments in the field of DF. Compile a report on the latest development, including cost, availability and specification and recommend equipments for standardization. Should the investigation be unfruitful, prepare specifications for the development and manufacture of equipments to meet Communications requirements.

25X1A9A

APPROVAL DATE	APPROVED	STARTING DATE	COMPLETION DATE
March 1957		March 1957	

A trip to Navy was contemplated for this reporting period but was not made due to work on a project of higher priority and vacations taken during this month. Letters have been sent to a number of commercial firms for brochures on their latest DF equipment.

SECRET

MONTHLY PROJECT REPORT

ORIGINATOR(S)	BUDGET EST. FY. AMOUNT	REPORTING PERIOD
OC-E		1 August - 30 August

☐ FUTURE ☒ ACTIVE ☐ COMPLETED ☐ CANCELLED ☐ SUSPENDED

PROJECT NUMBER	PRIORITY CLASS	PRIM. RSPN.	PROJECT ENGINEER
E-5034	I		

25X1A9A

PROJECT TITLE

Development of 8" Tape Reel for AFSAM-7

PROJECT REQUIREMENT

Design a tape reel to provide longer running time than is now available with 4" tape reel

PROJECT DESCRIPTION

The design characteristics to include:

A. Maximum diameter reel (8").

B. Ease of mounting

C. Reel mounted in AFSAM-7 carrying case.

25X1A9A

APPROVAL DATE	APPROVED	STARTING DATE	COMPLETION DATE
1 October 1956		8 October 1956	

No further action has been taken on this project pending the delivery of the 7 reels from NSA for modification. Delivery was expected during the month of July, however, to date no word has been received indicating why this delay has occurred.

SECRET

MONTHLY PROJECT REPORT

ORIGINATOR(S)	BUDGET EST. FY, AMOUNT	REPORTING PERIOD
OC-E		1 August - 30 August

☐ FUTURE ☒ ACTIVE ☐ COMPLETED ☐ CANCELLED ☐ SUSPENDED

PROJECT NUMBER	PRIORITY CLASS	PRIM. RSPN.	PROJECT ENGINEER
E-5037	II	[redacted]	25X1A9A

PROJECT TITLE

Technical Bulletins

PROJECT REQUIREMENT

To keep the field supplied with current technical information pertinent to general operation.

PROJECT DESCRIPTION

Scan technical literature to determine and select items for field distribution, determine distribution category, reproduce required number of copies, prepare cover letters, arrange approval and coordination, and forward to appropriate areas.

APPROVAL DATE	APPROVED		STARTING DATE	COMPLETION DATE
			2 February 1956	25X1A9A

Technical Bulletin No. 17 - "Location and Suppression of Radio Interference". The covering dispatch for this bulletin is now being coordinated. T.B. No. 17 will be issued within two weeks time.

~~S E C R E T~~

MONTHLY PROJECT REPORT

ORIGINATOR(S)	BUDGET EST. FY. 57 AMOUNT 14,5000	REPORTING PERIOD
OC-E		1 August - 31 August 1957

☐ FUTURE ☒ ACTIVE ☐ COMPLETED ☐ CANCELLED ☐ SUSPENDED

PROJECT NUMBER	PRIORITY CLASS	PRIM. RSPN.	PROJECT ENGINEER
E-5041	I		

25X1A9A

PROJECT TITLE

RT-4 Transmitter Repackaging

PROJECT REQUIREMENT

Improve the reliability and operation features of the RT-4 Transmitter and package it with a Portable Master Oscillator in a rack for base station use.

PROJECT DESCRIPTION

The RT-4 Transmitter was originally made for small station intermittent use. Operational use has revealed some technical discrepancies and the transmitter has been placed "on the shelf." This project will be to correct these discrepancies and to mount the transmitter and PMO in the 48 inch rack for base station use. The task of redesign will be given to a consulting firm. A second firm will be given the task of compiling test data on a number of RT-4 Transmitters currently undergoing blower modification. This data will then be given to the first consulting firm.

25X1A9A

APPROVAL DATE	APPROVED	STARTING DATE	COMPLETION DATE
28 February 1956		1 March 1956	

No work has been accomplished by the contractor during this reporting period. The delay was due to poor delivery by the suppliers.

25X1A5A1

predict that this project will be completed by 15 October.

MONTHLY PROJECT REPORT

ORIGINATOR(S)	BUDGET EST. FY. AMOUNT	REPORTING PERIOD
OC-E		1 - 31 August 1957

☐ FUTURE ☐ ACTIVE ☐ COMPLETED ☐ CANCELLED ☒ SUSPENDED

PROJECT NUMBER	PRIORITY CLASS	PRIM. RSPN.	PROJECT ENGINEER
E-5045	I		

25X1A9A

PROJECT TITLE

Transmitter to Antenna Matching Equipment and Information

PROJECT REQUIREMENT

This is a study to determine what equipment should be sent to the major base stations to provide impedance matching information.

PROJECT DESCRIPTION

This study is to investigate what equipment will be sent, how to use it, typical readings and results on similar transmitter/antenna combinations, and how to and reasons for lowering the standing wave ratio.

This study will result in the publication of a technical bulletin covering these points.

APPROVAL DATE	APPROVED	STARTING DATE	COMPLETION DATE
January 1956	WAB /s/ JJK /s/	January 1956	

This project has been suspended until definite information on the availability of a production model of the TMC SWR600 meter is received. The release of the technical bulletin will be held pending receipt of the above information.

MONTHLY PROJECT REPORT

ORIGINATOR(S)	BUDGET EST. FY. AMOUNT	REPORTING PERIOD
OC-E		1 August - 31 August 1957

☐ FUTURE ☒ ACTIVE ☐ COMPLETED ☐ CANCELLED ☐ SUSPENDED

PROJECT NUMBER	PRIORITY CLASS	PRIM. RSPN.	PROJECT ENGINEER
E-5043	I		25X1A9A

PROJECT TITLE

[ ] VHF/MUX Equipment for Stand-By Switchover 25X1A5A

PROJECT REQUIREMENT

Provide compatible stand-by facilities for VHF/MUX systems when used as primary link.

PROJECT DESCRIPTION

Determine the feasibility and cost of adding stand-by RF units and power supplies for switch-over use when the VHF/MUX is the primary link. In addition an investigation will be made over the possible installation of ventilating fans when the equipment is operated under high ambient temperatures. A second phase of this project will be to prepare a bill of materials of operating spares which should be included with each MUX link.

APPROVAL DATE	APPROVED	STARTING DATE	COMPLETION DATE
20 October 1956	WAB /s/ JJK /s/	February 1957	

A spare parts list has been compiled and will be sent to MSB for inclusion in the stock catalogue. Ventilation of the VHF cabinet has been adequately designed and a rough draft of a Modification Work Order prepared. This Modification Work Order should be published within the next report period.

MONTHLY PROJECT REPORT

ORIGINATOR(S)	BUDGET EST. FY. AMOUNT	REPORTING PERIOD
OC-E		1 August - 31 August 1957

☐ FUTURE ☒ ACTIVE ☐ COMPLETED ☐ CANCELLED ☐ SUSPENDED

PROJECT NUMBER	PRIORITY CLASS	PRIM. RSPN.	PROJECT ENGINEER
E-5050	I		

25X1A9A

PROJECT TITLE

Modification of the [redacted] 16-F and 231-D Transmitters

25X1A5A1

PROJECT REQUIREMENT

25X1A5A1

Determine modification to operate [redacted] 16-F and 231-D Transmitters below 4 mc. when the excitation frequency is equal to the output frequency.

PROJECT DESCRIPTION

These transmitters multiply the input frequency by the factor of 2, 4, or 3. It is intended to have a consulting engineer investigate this problem and recommend possible transmitter modifications. The results of this investigation will be published as a Standard Modification Work Order.

25X1A9A

APPROVAL DATE	APPROVED	STARTING DATE	COMPLETION DATE
1 May 1956	[redacted]	5 June 1956	

25X1A6B

A trip was made to [redacted] by the Project Engineer and a Engineer from the firm of [redacted] for the purpose of installing a prototype modification kit for the 16-F transmitter. The instructions have been appropriately revised and the 20 kits mentioned in the April monthly report are now available.

25X1A5A1

The Transportation Branch has been requested to pick up the completed kits and deliver them to the warehouse. A list of all parts mentioned in the kits along with the manufacturer's model number has been sent to MSB for assignment of stock numbers.

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MONTHLY PROJECT REPORT

ORIGINATOR(S)	BUDGET EST. FY. AMOUNT	REPORTING PERIOD
OC-E		1 - 31 August 1957

☐ FUTURE ☒ ACTIVE ☐ COMPLETED ☐ CANCELLED ☐ SUSPENDED

PROJECT NUMBER	PRIORITY CLASS	PRIM. RSPN.	PROJECT ENGINEER
E-5055	II		

25X1A9A

PROJECT TITLE

Test Equipment Standardization

PROJECT REQUIREMENT

Compile a list of standard test equipment for the Office of Communications' use.

PROJECT DESCRIPTION

Investigation has shown that some of the test equipment for use and stock is outdated and in many cases types of equipment are duplicated. This project will be to review OC support requirements and prepare a list of standard test equipment to support these requirements. This list will be used for procurement and stocking purposes.

APPROVAL DATE	APPROVED	STARTING DATE	COMPLETION DATE
29 October 1956	WAB /s/ JJK /s/	February 1957	

Phase I of Standardization of Test Equipment has been distributed to OC-O&T, OC-SP, and OC-E. This consisted of approximately 10 classes of test equipment.

The purpose of this release to the Divisions was to obtain their reaction to the tentative standards as selected by SDS. These charts will be returned to SDS and an overall composite evaluation will be made of these items for submission to MSB.

Phase II has been prepared in rough draft form and consists of 20 sheets covering as many classes of equipment. The individual items under these classifications do not show as much duplication as in the previous phase. All items are listed, however, to aid in avoiding future duplication.

~~SECRET~~

~~S E C R E T~~

MONTHLY PROJECT REPORT

ORIGINATOR(S)	BUDGET EST. FY. AMOUNT	REPORTING PERIOD
OC-P		1 - 31 August 1957

☐ FUTURE ☒ ACTIVE ☐ COMPLETED ☐ CANCELLED ☐ SUSPENDED

PROJECT NUMBER	PRIORITY CLASS	PRIM. RSPN.	PROJECT ENGINEER
E-5060	I	[redacted]	25X1A9A

PROJECT TITLE

Strategic Reserve Program

PROJECT REQUIREMENT

To provide readily available transportable type package radio stations at convenient locations throughout the world for immediate installation and operational use in the event of an emergency.

PROJECT DESCRIPTION

To provide bills of materials for 2, 5, 10, 13, 15, and 20 position transportable type package radio stations with suggested floor plan layouts and standard wiring diagrams to provide efficient equipment utilization.

APPROVAL DATE	APPROVED	STARTING DATE	COMPLETION DATE
September 1953	WAB /s/ JJK /s/	September 1953	

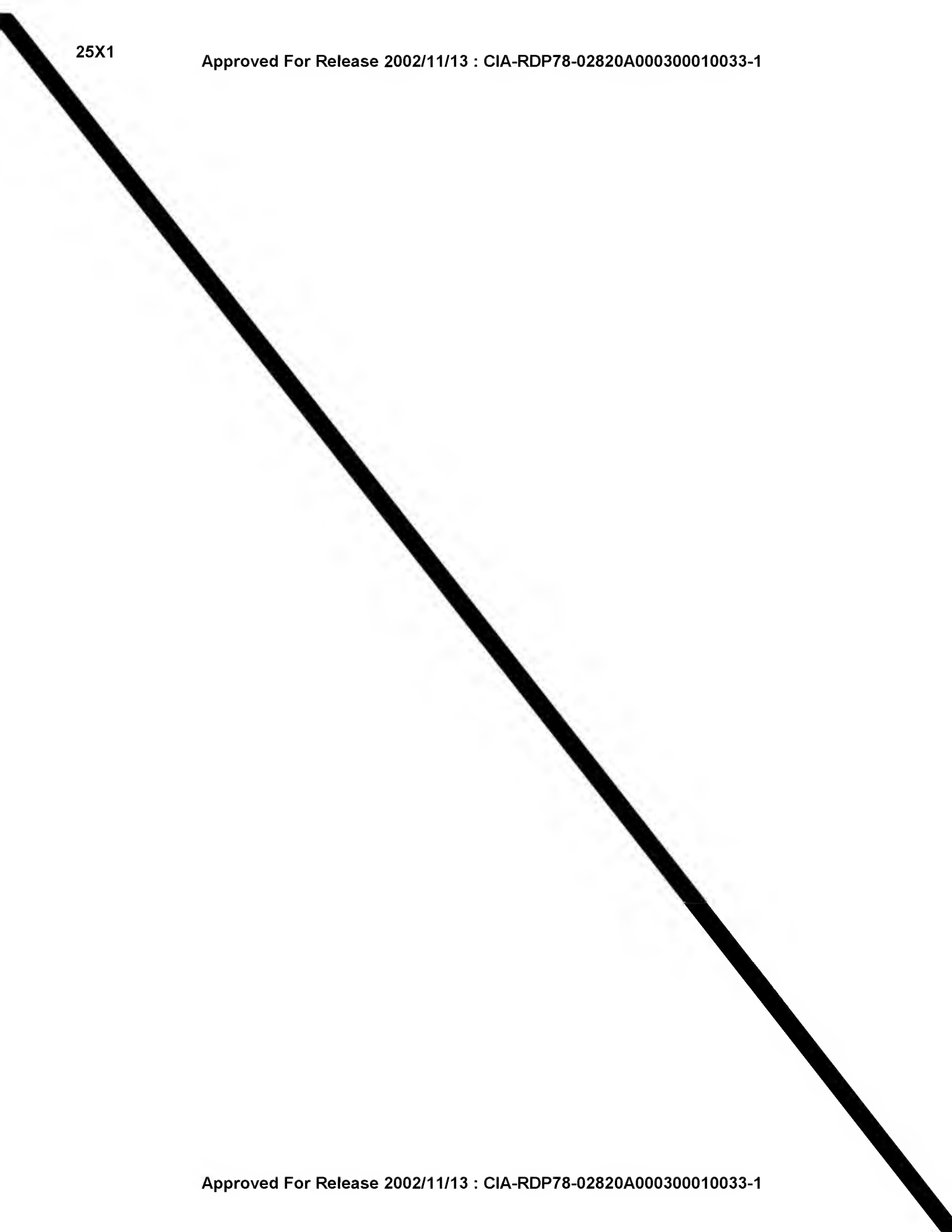
The 20 Position Bill of Materials was submitted to OC-O&T and OC-P for approval.

Revisions to the 10 and 13 Position Bills of Materials were made. These revisions include standardization of cables, substitution of circuit breaker equipment for fusible equipment, the addition of miscellaneous electrical hardware, and the addition of miscellaneous office, maintenance, and storage equipment.

Substitutions and additions were made to the power distribution equipment and associated materiel in the 5 and 15 Position Bill of Materials.

All of these revisions will be forwarded to MSB for action during the next reporting period.

~~S E C R E T~~



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MONTHLY PROJECT REPORT

ORIGINATOR(S)	BUDGET EST. FY. AMOUNT	REPORTING PERIOD
OC-E		1 - 31 August 1957

☐ FUTURE ☑ ACTIVE ☐ COMPLETED ☐ CANCELLED ☐ SUSPENDED

PROJECT NUMBER	PRIORITY CLASS	PRIM. RSPN.	PROJECT ENGINEER
E-5076	II		[redacted] 25X1A9A

PROJECT TITLE

Double Side Band Suppressed Carrier Communications System

PROJECT REQUIREMENT

Evaluation of newly designed communications equipment to keep abreast of the latest developments and to determine the feasibility of adapting this system for OC requirements.

PROJECT DESCRIPTION

25X1A5A1 This system consists of a transmitter Model AN/FRT-30 and receiver type AN/FRR-48 using a double side band suppressed carrier which has the advantage of not utilizing power for transmitting a carrier, similar to single side band suppressed carrier transmission with the advantages of the gain realized by transmitting both side bands. This evaluation will consist of operating a line between [redacted] and OC-E to check the operation and technical characteristics of this sytem.

APPROVAL DATE	APPROVED	STARTING DATE	COMPLETION DATE
10 October 1956	WAB /s/ JJK /s/	11 October 1956	

25X1A9A

FOIAB3B1

25X1A9A Two of the receivers were examined by SEB engineers and have been loaned to [redacted] of [redacted] at the request of Mr. [redacted] These receivers will be evaluated at the [redacted] installation. [redacted] will prepare a report on the equipment and will forward this to us. 25X1A6D

FOIAB3B1

MONTHLY PROJECT REPORT

ORIGINATOR(S)	BUDGET EST. FY. AMOUNT	REPORTING PERIOD
OC-O&T		1 - 31 August 1957

☐ FUTURE ☒ ACTIVE ☐ COMPLETED ☐ CANCELLED ☐ SUSPENDED

PROJECT NUMBER	PRIORITY CLASS	PRIM. RSPN.	PROJECT ENGINEER
E-5080	I	[redacted]	25X1A9A

PROJECT TITLE

Mobile Message Center

PROJECT REQUIREMENT

A Mobile Message Center is required as a companion unit to the 2-ST radio facility for processing staff traffic.

PROJECT DESCRIPTION

The project will require the design of a facility with the following functions

A. Supervisors or C. W. Position
B. 2 Manual OTP Positions
C. 1 RTTY Position or utilized for duplex land line operation
D. 1 AFSAM-7 Position
E. 1 Tiny Tot Position
F. 1 Reproduction Unit

25X1A5A1

It is planned to house the Message Center in a modified [redacted] approximately twelve feet long, ten feet high, and eight feet wide, towed by a two and one-half ton truck.

APPROVAL DATE	APPROVED	STARTING DATE	COMPLETION DATE
August 1956	WAB /s/ JJK /s/	August 1956	

A trip was made this month to the [redacted] by 25X1A5A1 personnel from OC-E, OC-O&T, and OC-S. The purpose of the trip was to view the "mock-up" of the operational equipment in the van, and to discuss the engineering, operational and security aspects of the Mobile Message Center with the [redacted] engineers. 25X1A5A1

Decisions were made by the above personnel and the [redacted] re- 25X1A5A1 lating to the layout of the equipment in the van, construction of the van and the security of the van. (See attached trip report dated 20 August 1957).

The [redacted] has now started production of the two trailer vans. As soon as technical change requests showing the modifications in the trailer from our original specifications are received, addendums will be made to the specifications. 25X1A5A1

S E C R E T

MONTHLY PROJECT REPORT

ORIGINATOR(S)	BUDGET EST. FY. AMOUNT	REPORTING PERIOD
OC-E		1 August - 30 August

☐ FUTURE ☒ ACTIVE ☐ COMPLETED ☐ CANCELLED ☐ SUSPENDED

PROJECT NUMBER	PRIORITY CLASS	PRIM. RSPN.	PROJECT ENGINEER
E-5083	I		25X1A9A

PROJECT TITLE

Evaluation of the 60 KW Cummins Diesel Generator Set

PROJECT REQUIREMENT

A 60 KW Cummins Generator is being procured for comparison purposes with G.M.C. Generators and will be installed as a fourth Generator [redacted] 25X1

PROJECT DESCRIPTION

The purpose of this project will be to determine the following:

1. The advantages gained by the electrically operated governor over the Hydraulic type.
2. The versatility of having a convertible 50/60 cycle unit and the amount of time that is consumed to accomplish the conversion.
3. Compare the flexibility of the voltage ranges in comparison to the G.M.C. Model.
4. Determine the fuel consumption under various load conditions.
5. In conclusion, determine whether or not this unit should be carried as a standard stock item.

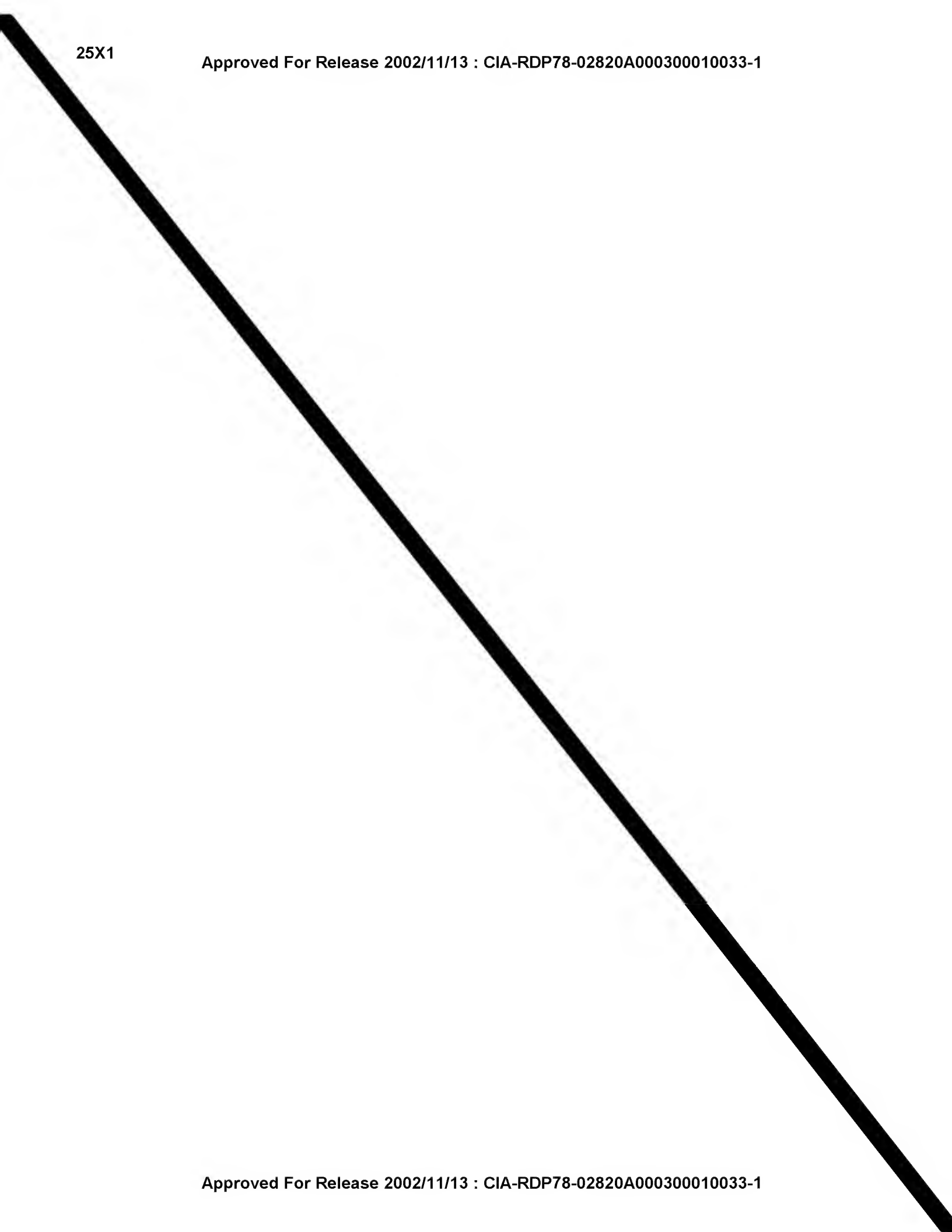
APPROVAL DATE	APPROVED	STARTING DATE	COMPLETION DATE
5 October 1956	[redacted] 25X1A9A	5 October 1956	

The estimated cost of installing this unit [redacted] was received on August 12, 1957 from the Real Estate & Construction Division, OL. The total cost to install the unit adjacent to the Fairbanks Morse Company generator was estimated at $250.00. 25X1

The installation is to be accomplished by [redacted] and is at present 90% completed. The only work that is pending is to extend the exhaust outlet so that the gases will be discharged outside of the generator room. 25X1A6A

It is expected that the installation of this unit will be completed and ready for evaluation on or before September 15, 1957.

S E C R E T



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MONTHLY PROJECT REPORT

ORIGINATOR(S)	BUDGET EST. FY, AMOUNT	REPORTING PERIOD
OC-E		1 - 31 August 1957

☐ FUTURE ☒ ACTIVE ☐ COMPLETED ☐ CANCELLED ☐ SUSPENDED

PROJECT NUMBER	PRIORITY CLASS	PRIM. RSPN.	PROJECT ENGINEER
E-5085	I	[redacted]	25X1A9A

PROJECT TITLE

Communications Systems Planning for New Headquarters Building

PROJECT REQUIREMENT

To determine the types of Communications systems, and thequantities of equipment that will be required for installation in the new Headquarters Building to meet Agency communications requirements.

PROJECT DESCRIPTION

To investigate and compile information on new communications systems and equipment. To meet regularly with representatives of the Message Center Staff, Operations, Engineering, snd Security Divisions, and the OC member of the New Building Planning Staff to discuss communications requirements for the new building. To prepare a list of the equipment that will be required and suggested floor plans and equipment layouts defining spare requirements.

APPROVAL DATE	APPROVED	STARTING DATE	COMPLETION DATE
January 1957	WAB /s/ JJK /s/	January 1957	

Activity for this reporting period was confined to reviewing master drawings prepared by the New Building Planning Staff defining room configuration and partitioning of the wire and electronics maintenance areas. Discrepancies that were noted were called to the attention of the OC member of the Planning Staff who took the necessary action to see that the drawings were changed to agree with our plans.

~~SECRET~~

S E C R E T

MONTHLY PROJECT REPORT

ORIGINATOR(S)	BUDGET EST. FY. AMOUNT	REPORTING PERIOD
OC-S/CSD 6-610		1 - 31 August 1957

☐ FUTURE ☐ ACTIVE ☑ COMPLETED ☐ CANCELLED ☐ SUSPENDED

PROJECT NUMBER	PRIORITY CLASS	PRIM. RSPN.	PROJECT ENGINEER
E-5086	I		25X1A9A

PROJECT TITLE

Monitor Equipment for OC-S

PROJECT REQUIREMENT

To provide suitable equipment for the purpose of monitoring voice communications on the frequencies between 165 and 175 megacycles in [redacted] 25X1

PROJECT DESCRIPTION

Procure and assemble the following equipment for installation in the vault area located in Room 2401 "I" Building:

A. VHF Receiver

B. Omnidirectional Antenna

C. Voice Activated Tape Recorder

APPROVAL DATE	APPROVED	STARTING DATE	COMPLETION DATE
December 1956	WAB /s/ JJK /s/	December 1956	August 1957

The installation of the equipment was viewed and approved by the project engineer.

Enthusiastic comments were received from the originator (OC-S) on the equipment and its performance.

This project is now completed.

S

S E C R E T

MONTHLY PROJECT REPORT

ORIGINATOR(S)	BUDGET EST. FY. AMOUNT	REPORTING PERIOD
OC-E		1 August - 31 August 1957

☐ FUTURE ☒ ACTIVE ☐ COMPLETED ☐ CANCELLED ☐ SUSPENDED

PROJECT NUMBER	PRIORITY CLASS	PRIM. RSPN.	PROJECT ENGINEER
E-5033	I		25X1A9A

PROJECT TITLE

Electronic Motor Stop

PROJECT REQUIREMENT

Provide semi-automatic motor control, responsive to the reception of a forty-five second steady state signal for stopping the motors. The combined opening and closing of the signal line shall place the motors in operation.

PROJECT DESCRIPTION

Modify the Electronic Motor Stop drawing WE-20 so that it is also receptive to a steady state open circuit. A schematic drawing will be submitted to an outside contractor for a cost estimate on 30 units. Twelve units will go to [redacted] 25X1 as per requisition #137-085-57. The balance of units will be placed in warehouse stock.

APPROVAL DATE	APPROVED	STARTING DATE	COMPLETION DATE
13 January 1957	WAB /s/ JJK /s/	21 January 1957	

The 15 Electronic Motor Stop units have been delivered by [redacted] 25X1A5A1 and are being inspected and tested by the Wire Maintenance Section/I&MB. When completed these units will be delivered to the warehouse for stock. Each unit will be packaged with an instruction manual.

A request has been made to MSB to obtain a FIIN number for this unit and place 12 units on back order for [redacted] 25X1

A dispatch has also been sent to all areas describing the unit and requesting that they determine their area requirements.

25X1

MONTHLY PROJECT REPORT

ORIGINATOR(S)	BUDGET EST. FY. AMOUNT	REPORTING PERIOD
[redacted] OC-O&T		1 August - 31 August 1957

☐ FUTURE ☐ ACTIVE ☐ COMPLETED ☐ CANCELLED ☒ SUSPENDED

PROJECT NUMBER	PRIORITY CLASS	PROJ. RSPN.	PROJECT ENGINEER
E-5089	I		[redacted] 25X1A9A

PROJECT TITLE

Selective Calling Systems

PROJECT REQUIREMENT

To determine what type, if any, selective calling system can be adapted for use in our overseas installations in order that stations may be alerted during unattended watch periods of emergency situations.

PROJECT DESCRIPTION

To investigate and compile a listing of all types of selective calling systems with such information as purpose, operational, technical and physical characteristics, and cost.

To select by operational and technical evaluations, if necessary, and recommend one of these systems be adopted.

If approved, to implement procurement and installation.

APPROVAL DATE	APPROVED	STARTING DATE	COMPLETION DATE
December 1956	WAB /s/ JJK /s/	January 1957	

The BRELCO Ship Call Alarm that was loaned to us by the Coast Guard and operational evaluated by O&T has been returned. Further investigation by the Project Engineer revealed that the BRELCO Company, besides being limited in manufacturing ability, is having financial difficulties. Consequently, it has been decided that we will not do business with this company. 25X1A5A1

Arrangements are being made to contact the [redacted] with the possibility that this company may develop a suitable unit for our use with no development money being expended on our part. Pending a show of interest from [redacted], this project will be suspended.

25X1A5A1

MONTHLY PROJECT REPORT

ORIGINATOR(S)	BUDGET EST. FY. AMOUNT	REPORTING PERIOD
OC-E		1 August - 31 August 1957

☐ FUTURE ☐ ACTIVE ☐ COMPLETED ☐ CANCELLED ☒ SUSPENDED

PROJECT NUMBER	PRIORITY CLASS	PRIM. RSPN.	PROJECT ENGINEER
E-5090	I	[redacted]	25X1A9A

PROJECT TITLE

On-Line Tiny Tot

PROJECT REQUIREMENT

Develop On-Line Tiny Tot that will meet N.S.A. requirements for on-line operation. Low line radiation is also required.

PROJECT DESCRIPTION

Develop circuitry for an On-Line Tiny Tot using the XD-91 dual channel transmitter-distributor. Develop necessary conversion and control chassis compatible with the modified XD-91. Make complete operational and radiation checks on the completed units. If possible the On-Line Tiny Tot should be compatible with the 131-B2.

APPROVAL DATE	APPROVED	STARTING DATE	COMPLETION DATE
15 November 1956	WAB /s/ JJK /s/	15 November 1956	

No work has been accomplished on this project during this reporting period.

We are still awaiting a feasibility study from the [redacted] 25X1A5A1
This project will be suspended until this information is received.

SECRET

MONTHLY PROJECT REPORT

ORIGINATOR(S)	BUDGET EST. FY. AMOUNT	REPORTING PERIOD
CSD 6-352		1 August - 31 August 1957

☐ FUTURE ☒ ACTIVE ☐ COMPLETED ☐ CANCELLED ☐ SUSPENDED

PROJECT NUMBER	PRIORITY CLASS	PRIM. RSPN.	PROJECT ENGINEER
E-5092	I		[redacted] 25X1A9A

PROJECT TITLE

Fabrication of Tiny-Tots, Associated Components, and Modification Kits.

PROJECT REQUIREMENT

Make 162 Tiny-Tots as required by Commo. Security Division.

PROJECT DESCRIPTION

162 XD-91 Diplex Transmitter-Distributos will be modified for Tiny-Tot operation by complete rewiring and addition of components. A kit containing the required parts to modify the Model-19 and the Model-14 for Tiny-Tot operation will be assembled.

Components to complete 270 keyboard modifications kits will be fabricated. This quantity will fulfill the requirements for modification of keyboards on existing Tiny-Tot units and the 172 new units. The modification of the XD-91 will be performed by a local contractor as well as the fabrication of all the required components.

APPROVAL DATE	APPROVED	STARTING DATE	COMPLETION DATE
21 February 1957	[redacted] 25X1A9A	25 February 1957	

25X1A5A1

During this reporting period ten TD's with series governed motors were delivered to the Wire Maintenance Section/I&MB by [redacted]. These units have been adjusted, tested and delivered to the warehouse.

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SECRET

MONTHLY PROJECT REPORT

ORIGINATOR(S)	BUDGET EST. FY. AMOUNT	REPORTING PERIOD
OC-E		1 August - 31 August 1957

☐ FUTURE ☒ ACTIVE ☐ COMPLETED ☐ CANCELLED ☐ SUSPENDED

PROJECT NUMBER	PRIORITY CLASS	PRIM. RSPN.	PROJECT ENGINEER
E-5093	I		25X1A9A

PROJECT TITLE

Study of Television Interference Produced by Some Commo. Transmitters

PROJECT REQUIREMENT

A study of some Agency transmitting equipment is needed to determine the extent of television interference radiated from this equipment.

PROJECT DESCRIPTION

Determine what are acceptable standards in commercial and amateur practice insofar as harmonic radiation related to television interference is concerned.

Cause the types of equipment normally used by the Office of Communications to be subjected to tests to see if they meet the above specifications. This would include the RT-1, RT-1B, URT-11, HT-4, and RT-4.

If any of this equipment fails to meet the acceptable standards, determine what can be done to bring it within specifications. Recommend a course of action to be taken.

APPROVAL DATE	APPROVE	STARTING DATE	COMPLETION DATE
20 February 1957	25X1A9A	21 February 1957	

The Office of Logistics is still processing the new Task Order (#13) and 25X1A9A of OL stated that it would be approximately two weeks before the contractor will be notified of authorization to proceed. There will be nothing further to report on this project until the above has been completed.

~~SECRET~~

MONTHLY PROJECT REPORT

ORIGINATOR(S)	BUDGET EST. FY. AMOUNT	REPORTING PERIOD
OC-E		1 August - 31 August 1957

☐ FUTURE ☒ ACTIVE ☐ COMPLETED ☐ CANCELLED ☐ SUSPENDED

PROJECT NUMBER	PRIORITY CLASS	PRIM. RSPN.	PROJECT ENGINEER
E-5094	I		25X1A9A

PROJECT TITLE

Radio Frequency Amplifiers (1,000 watts)

PROJECT REQUIREMENT Investigate specifications, cost and availability of RF power amplifiers in the 1,000 watt range to determine suitability for Commo. use. These must be compatable for use with existing or planned Commo. low power transmitters as the driving source.

PROJECT DESCRIPTION

Investigate commercial and military equipment to find a radio frequency amplifier covering the 2 to 32 megacycle range with approximately one kilowatt input on C.W. and also capable of linear amplifier operation to handle single sideband.

If any are found acceptable, to recommend procurement and stock levels.

APPROVAL DATE	APPROVED	STARTING DATE	COMPLETION DATE
February 1957		February 1957	25X1A9A

The expected delivery date for the TMC PAL-350 is the end of September. Upon arrival, this unit will undergo a technical evaluation such as was performed on the L-1000-A and the SSB-1,000-MIL.

SECRET

MONTHLY PROJECT REPORT

ORIGINATOR(S)	BUDGET EST. FY. AMOUNT	REPORTING PERIOD
OC-O&T 57-062		1 August - 31 August 1957

☐ FUTURE ☒ ACTIVE ☐ COMPLETED ☐ CANCELLED ☐ SUSPENDED

PROJECT NUMBER	PRIORITY CLASS	PRIM. RSPN.	PROJECT ENGINEER
E-5095	I	[redacted]	25X1A9A

PROJECT TITLE

Automatic Frequency Scanning Devices

PROJECT REQUIREMENT

Equipment is needed for automatic frequency scanning and recording to replace the time consuming and inefficient manual method.

PROJECT DESCRIPTION

Investigate the availability, cost and specifications of U. S. Manufactured frequency scanning and recording equipment.

If none are available, general specifications will be written and contact made with equipment manufacturers to get an estimate of the cost of such equipment.

This cost information will be sent to the project originator and if approved, detail specifications will be written and the equipment procured.

APPROVAL DATE	APPROVED	STARTING DATE	COMPLETION DATE
25 February 1957	[redacted]	25 February 1957	25X1A9A

As yet no firm interest has been evidenced by [redacted] in developing an Automatic Frequency Scanning unit. 25X1A5A1 The conference mentioned in last month's report did not take place, although [redacted] was contacted twice during this reporting period. 25X1A5A1

We will continue to query [redacted]. 25X1A5A1

SECRET

S E C R E T

FOIAB3B1

MONTHLY PROJECT REPORT

ORIGINATOR(S)	BUDGET EST. FY. AMOUNT	REPORTING PERIOD
[redacted]		1 August - 31 August 1957

☐ FUTURE ☐ ACTIVE ☒ COMPLETED ☐ CANCELLED ☐ SUSPENDED

PROJECT NUMBER	PRIORITY CLASS	PRIM. RSPN.	PROJECT ENGINEER
E-5096	1	[redacted]	25X1A9A

PROJECT TITLE

"10-20" Line Feed Counter

PROJECT REQUIREMENT Fabricate twelve "10-20" Line Feed Counters which will automatically count the number of lines, either 10 or 20, and then render the model-19 keyboard and tape perforator inoperative. A reset is to be supplied so that at the end of 10 or 20 lines, another page can be started. (Memo from [redacted] 25X1A9A dated 7 February 1957).

PROJECT DESCRIPTION

FOIAB3B1

The design of the present "10-20" Line Feed Counter will be modified to eliminate mechanical instability of this unit. Teletype components will be ordered and all other necessary components will be fabricated for twelve counters.

Assembly and wiring of the units will be accomplished through a local contractor. Five completed units will be sent to [redacted] The balance of 7 units will be placed in warehouse stock. STAT

APPROVAL DATE	APPROVED	STARTING DATE	COMPLETION DATE
March 1957	[redacted]	March 1957	August 1957

25X1A9A

The 12 counter units have been completed by the [redacted] Section/I&MB and delivered to the warehouse under FIIN #5/5815-H03-0636. [redacted] has been notified that the units are now in warehouse stock and they will now requisition the units, as needed, to meet their field requirements. 25X1 FOIAB3B1

Each counter unit will be packaged with one set of modification parts and one instruction manual. One complete instruction manual was sent to [redacted] 25X1A9A [redacted] for his information.

This project is now complete.

FOIAB3B1

S E C R E T

SECRET

MONTHLY PROJECT REPORT

ORIGINATOR(S)	BUDGET EST. FY. AMOUNT	REPORTING PERIOD
OC-F		1 August - 31 August 1957

☐ FUTURE ☒ ACTIVE ☐ COMPLETED ☐ CANCELLED ☐ SUSPENDED

PROJECT NUMBER	PRIORITY CLASS	PRIM. RSPN.	PROJECT ENGINEER
E-5099	I		25X1A9A

PROJECT TITLE

Frequency Extension of the 231-D Transmitter

PROJECT REQUIREMENT

To determine the modification necessary to extend the upper frequency operating range of the Collins type 231-D Transmitter from 26 to 28.5 megacycles.

PROJECT DESCRIPTION

This problem will be turned over to an outside consulting engineering firm for investigation. They will determine if the frequency range can be extended from 26 to 28.5 megacycles without major modifications. If the results indicate that this frequency extension is possible, a Modification Work Order and kits will be made to facilitate this modification on specific transmitters as directed by the Operations & Training Division.

APPROVAL DATE	APPROVE	STARTING DATE	COMPLETION DATE
February 1957	25X1A9A	March 1957	

The contractor is still awaiting delivery of a TER-5000 resistor frmm [redacted] 25X1 prior to proceeding with full power final testing. [redacted] 25X1A5A1 25X1A5A1 stated that the resistor should be shipped within two weeks. An additional two weeks will be needed to preform the final testing, therefore, it is expected that the delivery of the 14 kits will be at least a month and a half from this date.

SECRET

MONTHLY PROJECT REPORT

ORIGINATOR(S)	BUDGET EST. FY, AMOUNT	REPORTING PERIOD
OC-E/OC-O&T	$21,000	1 August - 31 August 1957

☐ FUTURE ☒ ACTIVE ☐ COMPLETED ☐ CANCELLED ☐ SUSPENDED

PROJECT NUMBER	PRIORITY CLASS	PRIM. RSPN.	PROJECT ENGINEER
E-5102	I		25X1A9A

PROJECT TITLE

Voice Link for 6-ST

PROJECT REQUIREMENT

Provide a voice link between the transmitter and receiver vans based on
25X1 suggestions from [redacted]

PROJECT DESCRIPTION

Design and install in the two 6-ST units currently at the [redacted] 25X1A6D a voice link capable of providing communication between the transmitter and receiver vans. The link should have the following capabilities:

a. Power output and range approximating the MUX Link.
b. Be portable or work in conjunction with an extra portable unit.
c. Work into the present MUX antenna system or provide a seperate antenna system.

Once the above is accomplished, a modification work order will be published for the rework of the remaining 6-ST's.

APPROVAL DATE	APPROVED		STARTING DATE	COMPLETION DATE
May 1957 25X1A5A1			May 1957	25X1A9A

Two Motorola Model P-7725 audio filters have been requisitioned for installation and evaluation in the 6-ST.

[redacted] cost estimate for the manufacture of brackets and racks to house Motorola Handie-Talkies was exhorbitant and the request was given to the R&D Laboratory for action. This transfer saved approximately $23.00 per unit.

~~S E C R E T~~

MONTHLY PROJECT REPORT

ORIGINATOR(S)	BUDGET EST. FY, AMOUNT	REPORTING PERIOD
OC-E		1 August - 31 August 1957

☐ FUTURE ☒ ACTIVE ☐ COMPLETED ☐ CANCELLED ☐ SUSPENDED

PROJECT NUMBER	PRIORITY CLASS	PRIM. RSPN.	PROJECT ENGINEER
E-5103	I		25X1A9A

PROJECT TITLE

Multiplex System for Base Station to Sub-Base Stations Communications

PROJECT REQUIREMENT

To provide a system of communications for base to sub-base operation to meet expanding communication commitments without extensive plant expansion.

PROJECT DESCRIPTION

Investigate and compile a report on the practicability of utilizing multiplex equipment on staff circuits, formulate systems where utilization is practical and make comparison costs with systems currently in use where expansion is contemplated or in areas where expanding communication commitments to staff circuits could justify multiplex communications.

APPROVAL DATE	APPROVED		STARTING DATE	COMPLETION DATE
May 1957			May 1957	25X1A9A

During this reporting period a report on the practicability of utilizing multiplex equipment on staff circuits, outlining cost per channel and comparison of this system with systems currently in use was submitted to the Chief, OC-E. Also contained in this report was a request for approval of $15,000 for the procurement of the necessary equipment for a test installation.

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MONTHLY PROJECT REPORT

ORIGINATOR(S)	BUDGET EST. FY. AMOUNT	REPORTING PERIOD
OC-E		1 August - 30 August

☐ FUTURE ☒ ACTIVE ☐ COMPLETED ☐ CANCELLED ☐ SUSPENDED

PROJECT NUMBER	PRIORITY CLASS	PRIM. RSPN.	PROJECT ENGINEER
E-5104	I		25X1A9A

PROJECT TITLE

Sleeve Type Antenna Kit for 7-21 Mcs.

PROJECT REQUIREMENT

To provide a sleeve type antenna kit in a compact packaged form which can be easily erected by two men in a short time.

PROJECT DESCRIPTION

To make a preliminary study of possible ways to construct this type antenna and then to write specifications and make suggested type construction drawings which can be used for having these made by a commercial firm under a contract.

APPROVAL DATE	APPRO	STARTING DATE	COMPLETION DATE
July 1957		July 1957	25X1A9A

The drafting room and the project engineer initiated work on the drawings and specifications on August 1, 1957. The project is approximately 80% completed.

It is expected that the drawings and specifications will be completed and ready to be submitted for bids on or before September 25, 1957.

~~S E C R E T~~

MONTHLY PROJECT REPORT

ORIGINATOR(S)	BUDGET EST. FY 58 AMOUNT $5,000	REPORTING PERIOD
OC-E		1 August - 31 August 1957

☐ FUTURE ☒ ACTIVE ☐ COMPLETED ☐ CANCELLED ☐ SUSPENDED

PROJECT NUMBER	PRIORITY CLASS	PRIM. RSPN.	PROJECT ENGINEER
E-5105	I		25X1A9A

PROJECT TITLE

HT-4 Exciter Modification

PROJECT REQUIREMENT

Some of the HT-4 transmitters do not have sufficient output from the exciter between 18 and 30 megacycles to drive the power amplifier to full output.

PROJECT DESCRIPTION

The exciter circuitry will be investigated to find methods of increasing its output in the 18 to 30 megacycle range. Any changes necessary will be kept as simple as possible. An outside consulting firm may be called in on this problem if additional help is needed. When the exciter drive is increased to the proper level, modification kits will be made up to be used in conjunction with Modification Work Order #7 (Revised).

APPROVAL DATE	APPROVED	STARTING DATE	COMPLETION DATE
August 1957		August 1957	25X1A9A

A technical evaluation of a number of different tuning units (TU-55 and TU-56) over the frequency range of 18 mcs to 30 mcs, reveals apparent improper design of the L/C circuitry in the units. Most units will not efficiently tune the range they were designed to cover.

25X1A5A1 [redacted] has been approached on this matter and it is hoped that a simple L/C modification kit can be devised to modify existing tuning units. As the HT-4 was originally designed for operation to 18 mcs., ideal operating conditions above 18 mcs, may be difficult to approach without a major alteration to the transmitter circuitry. Tuning units will be requisitioned 25X1A5A1 and delivered to [redacted] for their evaluation and possible modification. See the attached Memeorandum to the File, dated 23 August 1957.

MONTHLY PROJECT REPORT

ORIGINATOR(S)	BUDGET EST. FY. 58 AMOUNT $10,000	REPORTING PERIOD
OC-E		1 August - 31 August 1957

☐ FUTURE ☒ ACTIVE ☐ COMPLETED ☐ CANCELLED ☐ SUSPENDED

PROJECT NUMBER	PRIORITY CLASS	PRIM. RSPN.	PROJECT ENGINEER
E-5106	I		25X1A5A1

PROJECT TITLE

Mechanical Transmitter Interlock Switches

PROJECT REQUIREMENT

To increase the safety features of the 16-F and 231-D type transmitters by providing a mechanically actuated switch that will ground the high voltage when the doors of these transmitters are opened.

PROJECT DESCRIPTION

Determine the type and quantity of switches for each type of transmitter. Have an outside consulting firm investigate the circuitry and construction of the 16-F and 231-D type transmitters for the best possible arrangement of wiring and placement of the switches.

This firm will also purchase the switches and other hardware to make an amount of kits, complete with installation instructions.

Secure authorization to make installation of these switches mandatory.

25X1A5A1 APPROVAL DATE	APPROVED		STARTING DATE	COMPLETION DATE
August 1957			August 1957	

25X1A5A1

25X1A5A1 [ ] **The problem as stated in the Project Requirement has been given to** [ ] **and a cost and work breakdown requested.**

As of this writing it is anticipated that the resulting modification kits will be assembled by SEB.

SECRET

MONTHLY PROJECT REPORT

ORIGINATOR(S)	BUDGET EST. FY. AMOUNT	REPORTING PERIOD
25X1 OC-E/SEB/		1 - 31 August 1957

☐ FUTURE ☒ ACTIVE ☐ COMPLETED ☐ CANCELLED ☐ SUSPENDED

PROJECT NUMBER	PRIORITY CLASS	PRIM. RSPN.	PROJECT ENGINEER
E-5107	I		25X1A5A1

PROJECT TITLE

Standardization of Antenna and Transmission Line Construction Drawings and Materials

PROJECT REQUIREMENT

To compile a complete set of construction drawings and bills of materials for commonly used antennas and transmission lines.

PROJECT DESCRIPTION

Transmission line drawings and bills of materials will be shown on 8-1/2" x 11" sheets, and antenna drawings and bills of materials will be shown on larger sheets. This material will be bound in booklet form and dispatched to each overseas area when completed, and originals will be filed at Headquarters.

APPROVAL DATE	APPRO	STARTING DATE	COMPLETION DATE
25X1A5A1 August 1957		August 1957	

The standardization of transmission lines and drawings on antennas has been divided into three general categories; (1) determination of the types of transmission lines, poles, hardware, and antennas which find general Agency use; (2) compilation of rough drawings of each different type of transmission line pole or antenna complete with details and bill of materials; and (3) final scaled drawings prepared by FES for assembly in a technical bulletin.

The present state of the project is that of compiling rough drawings of the transmission lines and associated hardware. Approximately thirty five rough drawings representing all transmission line work have been completed.

Various types of antenna drawings have also been collected so that a list of the desired types may be made. Sources of the drawings have been Navy, Air Force, Philco, Agency, and Trylon (Wind Turbine). Over 100 drawings have been assembled. Each drawing, when completed, will indicate the general characteristics of the antenna, design data, and bill of materials.

The Trylon equipment may be purchased as a kit complete with drawings and bill of materials. It is expected that a list of the kits available from the company will be presented as a part of the technical bulletin.

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25X1

MONTHLY PROJECT REPORT

ORIGINATOR(S)	BUDGET EST. FY, AMOUNT	REPORTING PERIOD
[redacted] 56-2716, CPL 7-006		1 - 31 August 1957

☐ FUTURE ☒ ACTIVE ☐ COMPLETED ☐ CANCELLED ☐ SUSPENDED

PROJECT NUMBER	PRIORITY CLASS	PRIM. RSPN.	PROJECT ENGINEER
E-5344	I		25X1A5A1

PROJECT TITLE

New Receiver Facility in [redacted] 25X1A6A

PROJECT REQUIREMENT

To construct a new permanent type radio receiving facility. Present receiving facilities are inadequate due to interference from transmitters located in close proximity and high electrical noise in the area.

PROJECT DESCRIPTION

To design and coordinate layout of receiver station with the Real Estate and Construction Division, Office of Logisitics and appropriate Office of Communications divisions.

APPROVAL DATE	APPROVED	STARTING DATE	COMPLETION DATE
April 1957	[redacted]	April 1957	25X1A5A1

25X1 A progress report for the month of July was received on the construction phase of this project (Dispatch No. [redacted]57-3000).

The progress is as follows:

1. contractor surveyed the site,
2. ground was leveled for both the receiver and generator buildings,
3. ground was broken for the foundations and the grounding radials, and
4. 26 pair telephone cable has been laid from [redacted] to the access road leading to the new receiver site; the remaining portion will be laid by [redacted], the [redacted] contractor.

25X1A6A

25X1A5A1 25X1A6A

V.H.F. multiplex link equipment will be requistioned by the field when the frequencies are approved.

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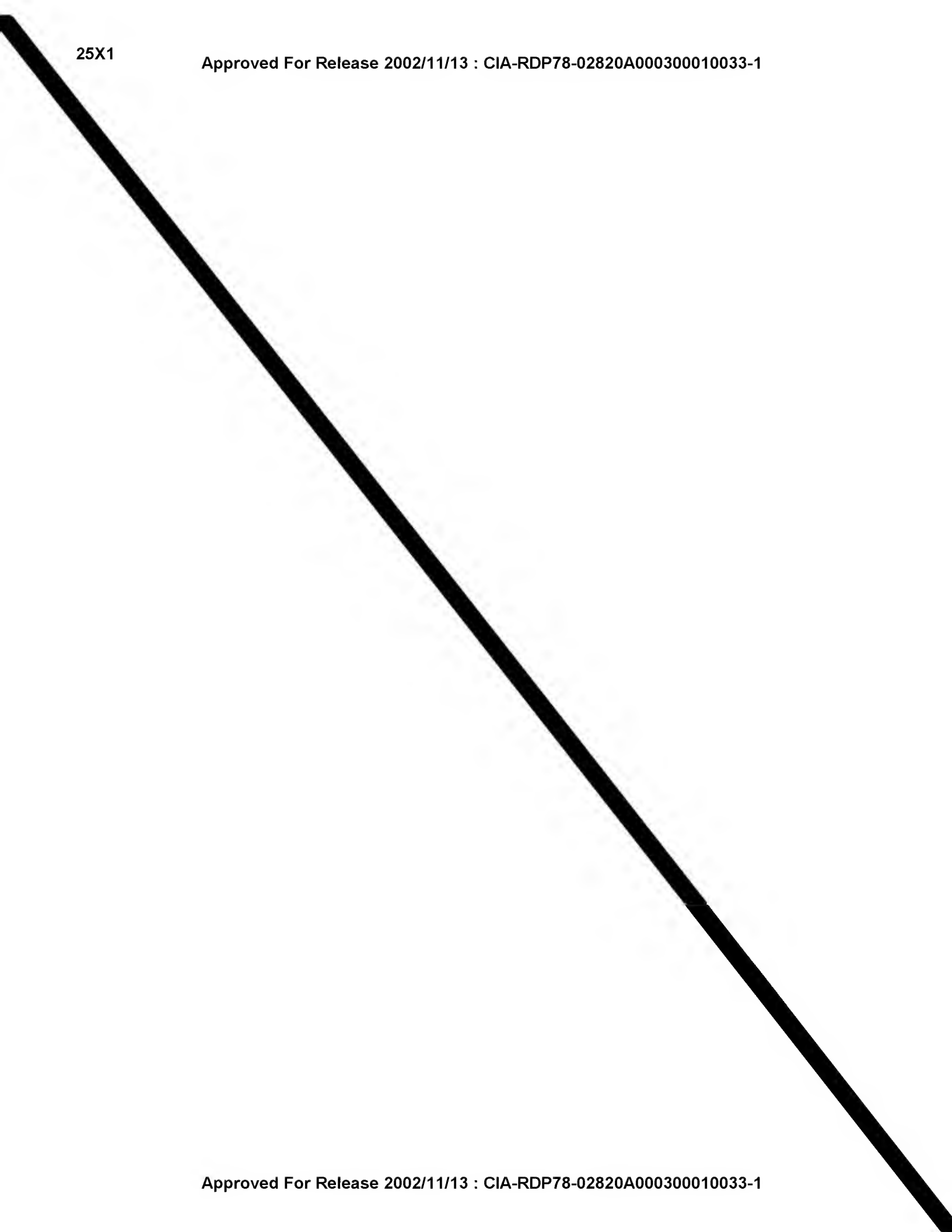

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